

02-08-02

A

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)***(Only for new nonprovisional applications under 37 CFR 1.53(b))*Docket No.  
MR/98-003.CTotal Pages in this Submission  
52**TO THE ASSISTANT COMMISSIONER FOR PATENTS**Box Patent Application  
Washington, D.C. 20231

Transmitted herewith for filing under 35 U.S.C. 111(a) and 37 C.F.R. 1.53(b) is a new utility patent application for an invention entitled:

**TAPERED BIRDCAGE RESONATOR FOR IMPROVED HOMOGENEITY IN MRI**

and invented by:

**Theodore J. Reisker, William J. Monski, Eric D. Reid, George J. Mistic**If a **CONTINUATION APPLICATION**, check appropriate box and supply the requisite information:☒ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.: 09/449,256

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

Which is a:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No.:

Enclosed are:

**Application Elements**

1. ☐ Filing fee as calculated and transmitted as described below
2. ☒ Specification having 28 pages and including the following:
  - a. ☒ Descriptive Title of the Invention
  - b. ☒ Cross References to Related Applications (if applicable)
  - c. ☐ Statement Regarding Federally-sponsored Research/Development (if applicable)
  - d. ☐ Reference to Sequence Listing, a Table, or a Computer Program Listing Appendix
  - e. ☒ Background of the Invention
  - f. ☒ Brief Summary of the Invention
  - g. ☒ Brief Description of the Drawings (if filed)
  - h. ☒ Detailed Description
  - i. ☒ Claim(s) as Classified Below
  - j. ☒ Abstract of the Disclosure

# UTILITY PATENT APPLICATION TRANSMITTAL (Large Entity)

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Docket No.  
MR/98-003.C

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52

## Application Elements (Continued)

3. ☒ Drawing(s) (when necessary as prescribed by 35 USC 113)
- a. ☒ Formal Number of Sheets 13
- b. ☐ Informal Number of Sheets \_\_\_\_\_
4. ☐ Oath or Declaration
- a. ☐ Newly executed (original or copy) ☐ Unexecuted
- b. ☒ Copy from a prior application (37 CFR 1.63(d)) (for continuation/divisional application only)
- c. ☐ With Power of Attorney ☐ Without Power of Attorney
- d. ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting inventor(s) named in the prior application,  
see 37 C.F.R. 1.63(d)(2) and 1.33(b).
5. ☒ Incorporation By Reference (usable if Box 4b is checked)  
The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered as being part of the disclosure of the accompanying application and is hereby incorporated by reference therein.
6. ☐ CD ROM or CD-R in duplicate, large table or Computer Program (Appendix)
7. ☐ Application Data Sheet (See 37 CFR 1.76)
8. ☐ Nucleotide and/or Amino Acid Sequence Submission (if applicable, all must be included)
- a. ☐ Computer Readable Form (CRF)
- b. ☐ Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ Paper
- c. ☐ Statement(s) Verifying Identical Paper and Computer Readable Copy

## Accompanying Application Parts

9. ☐ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(B) Statement (when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. ☒ Certificate of Mailing
- ☐ First Class ☒ Express Mail (Specify Label No.): EL886754926US

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
**MR/98-003.C**

Total Pages in this Submission  
**52**

**Accompanying Application Parts (Continued)**

17. ☒ Additional Enclosures *(please identify below)*:

Customer Number and Correspondence Address

**Request That Application Not Be Published Pursuant To 35 U.S.C. 122(b)(2)**

18. ☐ Pursuant to 35 U.S.C. 122(b)(2), Applicant hereby requests that this patent application not be published pursuant to 35 U.S.C. 122(b)(1). Applicant hereby certifies that the invention disclosed in this application has not and will not be the subject of an application filed in another country, or under a multilateral international agreement, that requires publication of applications 18 months after filing of the application.

**Warning**

***An applicant who makes a request not to publish, but who subsequently files in a foreign country or under a multilateral international agreement specified in 35 U.S.C. 122(b)(2)(B)(i), must notify the Director of such filing not later than 45 days after the date of the filing of such foreign or international application. A failure of the applicant to provide such notice within the prescribed period shall result in the application being regarded as abandoned, unless it is shown to the satisfaction of the Director that the delay in submitting the notice was unintentional.***

**UTILITY PATENT APPLICATION TRANSMITTAL**  
**(Large Entity)**

*(Only for new nonprovisional applications under 37 CFR 1.53(b))*

Docket No.  
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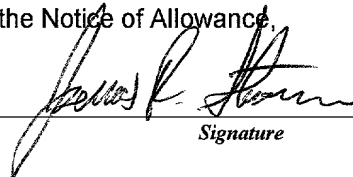
Total Pages in this Submission  
52

**Fee Calculation and Transmittal**

**CLAIMS AS FILED**

| For   | #Filed | #Allowed | #Extra | Rate      | Fee      |
|---|--------|----------|--------|-----------|----------|
| <b>Total Claims</b>   | 17     | - 20 =   | 0      | x \$18.00 | \$0.00   |
| <b>Indep. Claims</b>  | 3      | - 3 =    | 0      | x \$84.00 | \$0.00   |
| <b>Multiple Dependent Claims (check if applicable)</b> <input type="checkbox"/> |        |          |        |           | \$0.00   |
| <b>BASIC FEE</b>  |        |          |        |           | \$740.00 |
| <b>OTHER FEE (specify purpose)</b> _____  |        |          |        |           | \$0.00   |
| <b>TOTAL FILING FEE</b>   |        |          |        |           | \$740.00 |

- ☐ A check in the amount of \_\_\_\_\_ to cover the filing fee is enclosed.
- ☐ The Commissioner is hereby authorized to charge and credit Deposit Account No. \_\_\_\_\_ as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of \_\_\_\_\_ as filing fee.
  - ☐ Credit any overpayment.
  - ☐ Charge any additional filing fees required under 37 C.F.R. 1.16 and 1.17.
  - ☐ Charge the issue fee set in 37 C.F.R. 1.18 at the mailing of the Notice of Allowance, pursuant to 37 C.F.R. 1.311(b).

  
Signature

Dated: February 5, 2002

James R. Stevenson  
MEDRAD, INC.  
One Medrad Drive  
Indianola, PA 15051

CC:

**CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)**Applicant(s): **REISKER, et al.**

Docket No.

**MR/98-003.C**

Serial No.

To be assigned

Filing Date

**2/5/2002**

Examiner

To be assigned

Group Art Unit

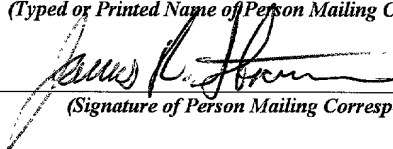
To be assigned

Invention: **TAPERED BIRDCAGE RESONATOR FOR IMPROVED HOMOGENEITY IN MRI**

I hereby certify that the following correspondence:

**Continuation application and related documents***(Identify type of correspondence)*

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231 on

**February 5, 2002***(Date)***James R. Stevenson***(Typed or Printed Name of Person Mailing Correspondence)*  
*(Signature of Person Mailing Correspondence)***EL886754926US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                                 |   |                          |
|---------------------------------|---|--------------------------|
| In re Application of:           | ) |                          |
|                                 | ) |                          |
| REISKER, et al.                 | ) |                          |
|                                 | ) | Art Unit: To be assigned |
| Serial No.: Unassigned          | ) |                          |
|                                 | ) |                          |
| Filed: February 5, 2002         | ) |                          |
|                                 | ) | Examiner: To be assigned |
| For: TAPERED BIRDCAGE RESONATOR | ) |                          |
| FOR IMPROVED HOMOGENEITY IN     | ) |                          |
| MRI                             | ) |                          |

CUSTOMER NUMBER AND CORRESPONDENCE ADDRESS

Assistant Commissioner  
for Patents  
Box Patent Application  
Washington, D.C. 20231

Dear Sir:

Please assign the following customer number (bar code label attached) and  
correspondence address to the enclosed patent application:

Customer Number: 21140

Bar Code Label:



**21140**

PATENT TRADEMARK OFFICE


Correspondence Address: James R. Stevenson  
Medrad, Inc.  
One Medrad Drive  
Indianola, PA 15051

Phone: (412) 767-2400 x3280  
Fax: (412) 767-8899

If there are any questions, please do not hesitate to contact the undersigned attorney of record.

Respectfully submitted,

Dated: February 5, 2002

  
James R. Stevenson  
Reg. No. 38,755

Medrad, Inc.  
One Medrad Drive  
Indianola, PA 15051  
(412) 767-2400 x3280

CERTIFICATE OF EXPRESS MAILING

"Express Mail" Mailing Label No. EL886754926US. Date of Deposit: February 5, 2002. I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the United States Postal Service "Express Mail Post Office To Addressee" Service under 37 C.F.R. 1.10 on the date indicated above and is addressed to: Box Patent Application, Assistant Commissioner for Patents, Washington, D.C. 20231.

James R. Stevenson

